1. A spraying system for applying one or more materials to an open mold

while said mold resides within a molding machine, said spraying system

comprising:

a spray head for directing said one or more materials onto portions

of said mold;

a manipulator connected to said spray head, and adapted to

position said spray head between halves of said open mold between

molding cycles of said molding machine;

a source of said one or more materials in communication with said

spray head;

a pressure boosting device positioned between each source of said

one or more materials and said spray head, said pressure boosting device

adapted to increase the pressure of the material passing therethrough;

and

a control device in electronic communication with said manipulator

and each pressure boosting device for controlling the operation thereof.

2. The spraying system of claim 1, wherein said mold is a die-cast mold.

3. The spraying system of claim 1, wherein said materials are selected from

the group consisting of an anti-solder material and a die-lubricant.

4. The spraying system of claim 1, wherein said pressure boosting device

increases the pressure of said one or more materials by passing each material

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through a separate chamber, wherein said material is acted upon by a

force-exerting cylinder.

5. The spraying system of claim 4, further comprising a speed control device

for controlling the speed of the force-exerting cylinder.

6. The spraying system of claim 4, further comprising an electronic solenoid

valve connected to each force-exerting cylinder and in electronic communication

with said control device, said solenoid valve for controlling the movement of the

corresponding force-exerting cylinder in response to a signal from said control

device.

7. The spraying system of claim 1, wherein the operation of said pressure

boosting device and said spray head is sequenced such that a pressurized

supply of said one or more materials from said pressure boosting device is

always available when needed for emission by said spray head.

8. The spraying system of claim 1, further comprising a solenoid valve in

electronic communication with said control device and located between each

source of said one or more materials and said spray head, each solenoid valve

for controlling the emission of a respective material from said spray head.

9. The spraying system of claim 1, further comprising an apparatus for

providing linear movement of said manipulator substantially along the longitudinal

axis of said molding machine.

10. The spraying system of claim 1, wherein said control device is in electronic

communication with said molding machine, such that said control device controls

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the operation of said pressure boosting device and the spraying of said one or

more materials onto portions of said mold by said spray head to coincide with a

particular segment of the molding machine cycle.

The spraying system of claim 1, wherein said control device is a . 11.

programmable logic controller.

12. The spraying system of claim 1, wherein said pressure boosting device

supplies said one or more materials to said spray head at a substantially constant

pressure.

13. A pressure boosting apparatus for use in a die spraying system, said

pressure boosting apparatus comprising:

a chamber for receiving a sprayable material from a pressurized

material source, said chamber located between said pressurized material

source and an emitter of said material;

a force-exerting cylinder coupled to said chamber, for exerting a

force on said material residing therein;

a conduit connecting said pressurized material source to said

chamber;

a conduit connecting said chamber to said emitter of said material;

and

a controller for sequencing the operation of said force-exerting

cylinder such that a sufficient amount of said sprayable material at an

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increased pressure is supplied to said emitter from said chamber as

needed.

14. The pressure boosting apparatus of claim 13, further comprising a speed

control device for regulating the speed of said force-exerting cylinder.

15. The pressure boosting apparatus of claim 13, further comprising a

solenoid valve for controlling the operation of said force-exerting cylinder.

16. The pressure boosting apparatus of claim 15, wherein said solenoid valve

is controlled by said control device.

17. The pressure boosting apparatus of claim 13, further comprising at least

one check valve for preventing the transport of pressurized material from said

chamber toward said material source.

18. The pressure boosting apparatus of claim 13, wherein said sprayable

material is supplied to said emitter from said chamber at a substantially constant

pressure.